

Koch, Kristine

From: Koch, Kristine
Sent: Monday, February 29, 2016 3:00 PM
To: 'Wyatt, Robert'
Cc: Carl Stivers; Jen Mott; Coffey, Scott
Subject: RE: [External]Anchor QEA Sheet Pile and Silt Curtain Unit Cost Buildup Questions

Thanks Bob – this answers our questions.

Kristine Koch
Remedial Project Manager
USEPA, Office of Environmental Cleanup

U. S. Environmental Protection Agency
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From: Wyatt, Robert [mailto:rjw@nwnatural.com]
Sent: Monday, February 29, 2016 8:46 AM
To: Koch, Kristine <Koch.Kristine@epa.gov>
Cc: Carl Stivers <cstivers@anchorqea.com>; Jen Mott <jmott@anchorqea.com>; Coffey, Scott <CoffeySE@cdmsmith.com>
Subject: RE: [External]Anchor QEA Sheet Pile and Silt Curtain Unit Cost Buildup Questions

Kristine,

The responses to your questions are provided below in *blue italics*. Please let me know if you have any questions.

Table 6. Temporary Sheetpile Walls:

- Does the “total quantity on proposal” and the “daily production rate” cells (14 LF) represent the horizontal length of the sheet pile wall segments used for the derivation of a per linear foot unit cost? *Yes, the cost estimate assumes that 14 linear feet of sheet piling are installed per day, given possible subsurface conditions, water currents, handling, environmental conditions, need for welding, etc.*
- The “total quantity on proposal” cell states “3 pairs per day”. What type of sheet pile system (e.g. vertical cantilever wall, anchored wall, etc.) and panel type/weight is assumed, and can the assumption of 3 pairs for this system be clarified as it related to 14 LF? *The wall was assumed to conceptually be a cantilever type wall. For this conceptual cost analysis 80 foot long, AZ-28 type sheet piles were assumed. Each sheet is 27.56 inches wide so a pair would be 55.12 inches wide. Three pairs would be a total width of approximately 14 feet.*
- The “quantity” cell states “Assume sheets 80’.” Does this represent the vertical dimension of the sheet pile wall? If so, what is the basis for this vertical length in terms of typical water depth, typical depth of sediment embedment, and typical stickup above water level as you assumed it for your Draft FS? *Yes, the sheets were assumed to be 80 feet long with approximately 50 feet embedded below the mudline and 30 feet sticking up. This will obviously need to be assessed as part of remedial design to see if a cantilever wall with these dimensions can work or if shorter stickups are required.*

Table 7. Silt Curtain Installation:

- Does the “total quantity on proposal” (750 LF) represent the horizontal length of the silt curtain segment used for the derivation of a per linear foot unit cost? *Yes, this assumes 750 linear feet of 30 foot high silt curtains would be installed per day.*
- What type of silt curtain system is assumed (e.g. Type 1 DOT, Type 2 DOT, or Type 3 DOT?). *This was assumed to be the typical permeable silt curtain that northwest contractors use. Float at the top, weights on the bottom and anchors as needed at the bottom approximately every 50 feet.*
- There appears to be no information indicated for assumed depth of silt curtain. What is the basis for this vertical length in terms of typical water depth and typical stickup above water level as you assumed it for your Draft FS? Also is this a full length curtain to bottom or a partial “hanging” curtain? *The curtains were assumed to be 30 feet in height. They were assumed to be installed to within 2 to 4 feet of the mudline and be adjustable—suitable for total water depths of ~34 feet or shallower.*

Thank you,

Bob

From: Koch, Kristine [Koch.Kristine@epa.gov]
Sent: Monday, February 15, 2016 9:36 AM
To: Wyatt, Robert
Cc: Carl Stivers; Jen Mott; Coffey, Scott
Subject: [External]Anchor QEA Sheet Pile and Silt Curtain Unit Cost Buildup Questions

Bob,

On October 10, 2013, Anchor QEA provided EPA with the attached cost backup information for the Anchor QEA FS (2010). EPA is requesting clarification regarding cost estimate assumptions for the following cost buildups presented in Tables 6 and 7 of the attached file; the information on which EPA is requesting clarification is highlighted in red on Tables 6 and 7.

Table 6. Temporary Sheetpile Walls:

- Does the “total quantity on proposal” and the “daily production rate” cells (14 LF) represent the horizontal length of the sheet pile wall segments used for the derivation of a per linear foot unit cost?
- The “total quantity on proposal” cell states “3 pairs per day”. What type of sheet pile system (e.g. vertical cantilever wall, anchored wall, etc.) and panel type/weight is assumed, and can the assumption of 3 pairs for this system be clarified as it related to 14 LF?
- The “quantity” cell states “Assume sheets 80’.” Does this represent the vertical dimension of the sheet pile wall? If so, what is the basis for this vertical length in terms of typical water depth, typical depth of sediment embedment, and typical stickup above water level as you assumed it for your Draft FS?

Table 7. Silt Curtain Installation:

- Does the “total quantity on proposal” (750 LF) represent the horizontal length of the silt curtain segment used for the derivation of a per linear foot unit cost?
- What type of silt curtain system is assumed (e.g. Type 1 DOT, Type 2 DOT, or Type 3 DOT?).
- There appears to be no information indicated for assumed depth of silt curtain. What is the basis for this vertical length in terms of typical water depth and typical stickup above water level as you assumed it for your Draft FS? Also is this a full length curtain to bottom or a partial “hanging” curtain?

Thanks,

Kristine Koch
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